

SWBAT: define emit, absorb, reflect, transmit, and scatter

Jan 4-7:20 AM

Welcome!!!

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SECA Physics
Wednesday 21 May 2014

- * Pick up:
 - worksheet
 - slip of paper (for later)



Opening Question:

Ever wonder why the sky is blue?

Centering

Sep 7-7:04 AM

What can happen with light?

Emit: GIVES OFF
PRODUCES

1. Think on your own ~30-60 sec
2. Discuss with people near you ~2 min
3. Share with the class...

Absorb: TAKE IN
↳ NOT WHITE

Reflect: BOUNCE OFF
↳ NOT BLACK

Transmit: SEND THROUGH
(demo)
↳ ABSORB/EMIT / ABSORB/EMIT . . .

May 23-7:42 AM

Light through water demo

Clear water showed white light on the wall

Added milk: light on wall was yellow / orangish => like sunset

Light going through the water had a bluish tint.

What's up with that?

Blue light (shorter wavelength) SCATTERS more easily
Red light is less likely to get knocked off course

So...

Sky looks blue, air is scattering blue light more

Sunset looks red, light least likely to get scattered coming
through all the air at sunset is at the red end of the visible spectrum

May 11-7:32 AM

Box like our eyes...

EMIT
ABSORB
REFLECT
TRANSMIT

BOX OPEN

↳ WHITE REFLECTS & GOES
OUT HOLE

CLOSE BOX

↳ BLACK

LIGHT COMING IN HOLE GETS ABSORBED

RED EYE: LIGHT STRAIGHT BACK OUT
OFF BLOOD VESSELS

May 23-7:42 AM

Daily 3 Questions

CP: Light worksheet due Friday 5/23

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your NAME!!!

| Name | Period |
|------|--------|
| 1. | |
| 2. | |
| 3. | |

Sep 9-7:32 AM

1) What color light is scattered (knocked off its path) most easily

A) red

B) blue

C) they scatter the same

2) Why are eyes red in photos with a flash?

RED BLOOD VESSELS AT BACK

3) Light being "**transmitted**" is actually the word for when 2 other things are happening one after another. **What are those other 2 things** that happen?

ABSORB & EMIT

May 21-7:45 AM